MRS-1044CD
40GB HDD & CD-R/RW

MRS-1044 Version2
20GB HDD

Introducing "Song Editor" for MRS-1044

Get a Private Studio.

All-in-one Multi Track Recorder with built-in Multi-Effects and Rhythm Machine. When inspiration calls, have the tools to completely create your composition.

with VAMS
Variable Architecture Modeling System

Easily sketch a new musical idea or create a full-blown master track with all the functions of a private studio.

Simple operation means that nothing gets between you and your music.

But the MRS-1044 is also sophisticated enough to leave you constantly discovering more.

From beginners to power-users, this Hard-Disk Multi-Track Recorder fits the bill.

Meet the new recording champion.

- ## IN / OUT
  Practical design with inputs for any instrument, plus digital output

  In addition to the common line-level phone jack, the MRS-1044 also has a Hi-Z input that directly handles the signal from electric guitars or bass. The built-in tuning function is useful as well. Two phantom powered XLR inputs are perfect for recording vocals and acoustic instruments. Condenser microphones can be used without pre-amplifier, letting you capture, for example, all the details of virtuoso acoustic guitar solo. On the output side, in addition to stereo RCA jacks, S/PDIF optical output allows you to feed the digital signal to DAT or MD recorder directly. The MIDI In/Out connectors are great for synchronized operation and Note data transmission and reception.

- ## Multi Effects With VAMS
  All the effect expertise you'd expect from ZOOM...Use it for Insert, Send/Return, or Mastering

  Up to 6 insert effects such as Distortion, Flanger, Phaser, Wah, Pitch Shifter, Cabinet Simulator etc. can be used simultaneously. Choose from a total of 84 effect types, all based on sophisticated technology such as the VAMS (Variable Architecture Modeling System) for realistic amplifier simulation. Of course, you can also edit the effects as you wish. Whether you want that 70's British sound, 90's grunge sound, or 21 century's ultra high gain sound, the MRS-1044 lets you shape any guitar or bass just the way you like it. Mastering effects can also be routed as insert effects, allowing use not only for the master track but also for any individual track. This lets you apply effects such as Multi-Band Compressor / Equalizer, Lo-Fi, Dimension or Resonance Filter after recording. In an entirely separate routine, Reverb, Chorus and Delay are available as Send / Return effects. Add sensitive ambience during mix-down, and Mastering-effects capability gives the user even more power. Get results that rival the work of a professional studio.

- ## Rhythm Machine

Cutting-edge realism of RhythmTrak fame

The ability to quickly and effectively create reliable Drum and Bass tracks with the built-in rhythm machine is another highlight of the MRS-1044. This gives you the freedom to put your energy where it matters most: into the audio tracks and your performance on them. Select from over 400 preset patterns to back up your ideas and give them room to grow. You'll never run out of possibilities. Of course, realistic sound and advanced editing capabilities are often desirable for your musical work, even for pre-production. The MRS-1044 provides 24 drum sounds for each of the 30 drum kits. Plus you get 15 great bass sounds and can create up to 250 original user patterns. You can use these patterns in a multitude of ways. One method might be to record some audio tracks using backgrounds from preset patterns, and later replace these with original patterns that you have created. Pursue your song in any direction you choose. Eight touch-sensitive pads are handy when creating drum phrases for real-time pattern recording. MIDI based note-on triggering is also possible, for those strong bass patterns.

- ## Mixer

Logical and simple user interface

Up to 13 tracks (10 audio tracks, one stereo drum track and one mono bass track) can be played back simultaneously, and individual faders control the drum and bass tracks as well. Because tracks 7/8 and 9/10 are linked as stereo you can quickly record and edit stereo sources or compare the results of your mastering decisions. Since faders are for mixing purposes only, vertical layout track parameters and simple layout function buttons, the color of the lit buttons indicates their status, such as logical user interface will never confuse you. Also the display shows all detailed data, and the encoder and cursor keys make input quick and easy. For each track, EQ, reverb send, chorus/delay send, and panning can be selected with the track buttons easily. The semi-parametric type 2 bands EQ allows professional tone adjustments.

- **CD Burner (MRS-1044 CD Only)**

The MRS-1044 CD can create Audio CDs and Data CDs reliably without extra procedures such as data transfer or conversion. The built-in CD-R/RW drive is super-thin, the type often used in laptop computers, and supports Buffer-Under-Run-Protection.

Creation of Audio CD

The audio CD is the most popular and interchangeable medium for distributing completed musical projects. The Album Burn List function allows you to create your original Audio CD with any number of tracks in whatever order you desire. The MRS-1044 CD easily allows for the creation of professional quality personal CDs, using Track-At-Once, Trimming for unnecessary empty space and Auto finalize. It also contains a function which allows auditions of the Master Track, continuous CD burning and final listening of the completed CD.

Data Backup

Considering all the risks associated with data storage, the Data CD is the most safe and efficient medium for data backup. Data backups can be performed according to each project or for all projects collectively. Splitting and saving for high capacity data is also supported.

- ## Digital Recorder

10 virtual takes for each physical track = 100 virtual takes / tracks

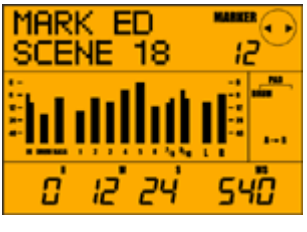
For musical convenience, you can repeatedly record a phrase and then select the best take to add to your composition. Or, you can create a phrase with different parameters and effects and then choose one take considering the blend within the song. It's like having access to a recording studio and a mixing studio rolled into one. You can select a recorded track as a source for insert effects (including mastering effects) and then record the results on another track. You can repeat the process with various settings without recording repeatedly, compare the different takes, or take up the project again at a later stage.

Digital editing functions for speedy and precise action

Favorite takes can be linked with the copy and paste function. Completed tracks can be bounced onto a stereo track for later use. For many other functions, the fully digital, non-compressed format assures that there will be no loss in sound quality. Up to 100 markers can be set for a project, to enable smooth cutting and pasting. You can opt for manual punch-in / punch-out with a foot switch, or use the markers to automate the process. If you make a mistake, Undo / Redo are available at the touch of a key.

100 scene memory settings per project, plus Scrub / Preview function

The sequencing capability includes not only mixing-level control but supports advanced techniques such as switching effects automatically during recording, or setting Lo-Fi for a portion of a recorded passage. The Scrub / Preview allow queuing with perfect timing, A-B repeat functions and a host of other user support functions help to make editing a breeze.



- ## Master Track
  The Master Track can record stereo output signals directly and can be used exclusively for Mix-Down or Mastering after completion of recording to normal tracks 1-10. As well as normal tracks, 10 virtual takes can be used, so various mixes, equalizations and comparisons with different mastering effects can be easily handled without recording to any external media, such as DAT. When creating audio CDs, this Master Track should be selected automatically so the normal tracks 1-10 can be diverted and neither bouncing nor copying is necessary.

- ## Optional Board

USB Interface (OPTION)
The hard disk format for the MRS-1044 is FAT32. Thus, if the MRS-1044 is connected to a PC using the USB interface, all folders/files can be controlled on the PC. For power users, non-real-time processing such as data backup, creation of audio CDs and data export/import with DAW software can be performed on your own PC.

¥The MAC OS & Mac OS X is not supported.

UIB-02 USB Interface Board

SCSI Interface (OPTION)
An optional SCSI interface allows the connection of various SCSI devices to the MRS-1044. Various media such as stand-alone HD drives, Zip drives, MO drives and CD-R/RW drives can be selected depending on the purpose. It also allows splitting and saving the data to removable media except for HD drives.
For a listing of compatible SCSI devices, please visit www.zoom.co.jp
¥Connector is a D-sub Half-pitch 50 pin.

SIB-01 SCSI Interface Board

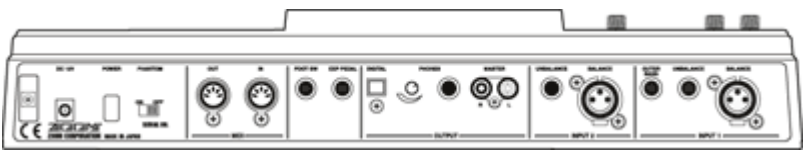
- **FOR BEGINNERS...**

  Even if you have never used a Hard-Disk Recorder before, you can use MRS-1044 without complex setup procedures. Creating multi-tracks is as easy as using a cassette MTR, but the fully digital design of the MRS-1044 ensures CD-quality sound. To begin composing, select a track number and assign a preset backing pattern by just pressing REC. Simply choose the effects you prefer, and create the song you've been hearing in your head. After completing a recording, it is still possible to switch rhythm patterns or effects. This allows you to try out various possibilities and gives you the freedom to explore your musical ideas.

- **FOR POWER USERS...**

  The 40 GB (MRS-1044 CD) and 20GB (MRS-1044 Version2) Hard Disk provides 120 hours (CD) and 60 hours(Version 2) of recording time. The MRS-1044 comes equipped with professional-level pre-production necessities like phantom-powered XLR inputs, 24-bit A/D-D/A converters, 24-bit data processing, 44.1kHz non-compressed 16bit linear recording data format, and S/PDIF digital output. Built-in rhythm machine and multi-effects support help you achieve quick pre-production on any project. An optional USB interface allows the transfer of recorded data to PC for further editing work or for backup, as well as burning onto CD-R/RW media. Real-time processing on MTR, and Non-real-time processing on PC is the current trend for many users.

BACK VIEW



SPECIFICATIONS

RECORDER

Physical Track :	10
Virtual Track :	100(10 Virtual Takes per Track)
Drum Track :	1(Stereo)
Bass Track :	1(Mono)
Simultaneous	2 Tracks
Recording Track :	2 Tracks
Recording Data Format :	16Bit Linear with NO compression
Recording Time :	Over 44 hours (Monaural track conversion)
Marker :	100 Marking points per project
Location Display :	Hour / Min / Sec / mSec or Measure / Beat / Tick
Track Edit :	Copy, Move, Paste, Erase, Exchange
Punch In / Out :	Manual, Auto
Other Functions :	Bounce, Scrub / Preview, A-B repeat, Undo / Redo

MIXER

Simultaneous	13(10Audio Tracks+Stereo Drum Track+Monaural Bass Track)
Playback Track :	13(10Audio Tracks+Stereo Drum Track+Monaural Bass Track)
Fader :	11(1-6 Mono, 7/8-9/10 Stereo, Drum, Bass, Stereo Master)
Level Display :	Post Fader, Pre Fader or Fader Value Monitor
Track Parameter :	Equalizer, Effects Send, Pan (Balance at Stereo Link)
Equalizer(High) :	f:500Hz-18kHz Gain+-:12dB
Equalizer(Low) :	f:40Hz-1.6kHz Gain+-:12dB
Effect Send :	Chorus/Delay Send, Reverb Send
Stereo Link :	1/2, 3/4, 5/6 Track assignable, 7/8, 9/10 Track fixed
Scene Function :	100 scenes per project (Assignable on Marker)

EFFECT

Algorithm :	4types(Guitar / Bass, Mic, Line, Mastering)
Modeling System :	VAMS(Variable Architecture Modeling System)
Insert Effect Patch :	220(Guitar / Bass 100 + Mic 50 + Line 50 + Mastering 20)
Insert Effect Module :	4(Compressor, Pre-Amp / Drive, Equalizer, Modulation / Delay)
Send / Return	2(Chorus / Delay, Reverb)
Effect Module :	2(Chorus / Delay, Reverb)
Send / Return	40(Chorus / Delay 20 + Reverb 20)
Effect Patch :	40(Chorus / Delay 20 + Reverb 20)
Tuner System :	Chromatic Auto Tuner
Tuner Calibration :	435-445Hz(1Hz resolution)

RHYTHM

Polyphony :	Drum 8 voices and Bass 1 voice
Sound Data Format :	16bit linear PCM
Drum Kit :	30 drum kits
Drum Sound :	24(8 Pad 3 Bank)per drum kit
Bass Sound :	15(5 octave per sound)
Pad :	8 Velocity Sensitive Pads
Resolution :	48PPQN
Odd Meter :	1/4-8/4
Factory Preset Pattern :	Over 400(Programmable)
Maximum Patterns :	255 patterns per song (Programmable)
Maximum Bars :	999 bars per song, 255 bars per pattern
Maximum	Approx. 10,000notes / events per song
Notes / Events :	Approx. 10,000notes / events per song
Tempo :	40.0-250.0(1/10 Resolution)

TOTAL

- Hard Disk : E-IDE 3.5Inch, 20GB (V2) / 40GB(CD)
- CD-R/W Drive : E-IDE, Buffer-Under-Run-Protection supported (CD)
- Project : Max.1,000 projects
- A/D Converter : 24bit 64times Oversampling
- D/A Converter : 24bit 128times Oversampling
- Sampling Frequency : 44.1kHz
- Signal Processing : 24bit
- Frequency Response : 20Hz~20KHz +- 1dB (At 10K Ohm Load Impedance)
- S/N Ratio : 93dB (IHF-A)
- Dynamic Range : 97dB (IHF-A)
- THD+N : 0.02% (400Hz 10k Ohm AT LOAD)
- Display : 60 x 42mm Original LCD (With Back-lit)
- Guitar/Bass Input (Hi-Z) : 1 x 1/4" Monaural Phone Jack, Input Impedance 500k Ohm
- Unbalance Input : 2 x 1/4" Monaural Phone Jack, Input Impedance Over 50K Ohm Unbalance
- Balance Input : 2 x XLR-3-31 type, Input Impedance 1kohm Balance, 2nd Hot
- Phantom Power : 48v (with On/Off Switch)
- Input Level : -50dBm <Variable < +4dBm
- Master Out : RCA PIN Jack (L/R)
- Output Impedance : 1k Ohm
- Rated Output Level : -10bBm
- Headphone Out : 1/4" Stereo Phone Jack, 50mW (at 32 Ohm Load impedance)
- Digital Out : S/P DIF Optical (20bit)
- MIDI : In/Out
- Control Input : FP-02 Input, FS-01 Input
- Optional Board Slot : 1
- Dimensions : 430 (W)x 260 (D)x 77 (H)mm
- Weigh : 3.5kg (V2), 3.9kg (CD)
- Power Requirement : DC-12V 2A (Supplied AC Adaptor AD-0009)
- Power Consumption : 20W (12V 1A) Typical
- Supplied Accessories : Universal AC Adapter (AD-0009), AC Cable
- Optional Accessories : FS-01 (Foot Switch), FP-02 (Expression Pedal)
- Optional Board : UIB-02 (USB interface board), SIB-01 (SCSI interface board)

0dBm=0.775Vrms